DTI

DATA TRENDS, INC.

CATALOG
MIMO-2

KEYBOARD MIMO

DESCRIPTION

The DTI Keyboard MIMO (*M*an *I*n — *M*achine *O*ut) is a real-time data communication terminal usable with any communications-oriented computer and with either teletype or voice grade facilities. A full range of alphabetic, numeric, and special characters are arranged in a keyboard-like manner. The keyboard has no moving parts and requires no depression of keys. Since there is no impacting on either the input side or by the printer, MIMO is exceptionally quiet. Echo-back verification provides closed-loop error control and assures maximum reliability.

OPERATION

Input is generated by placing the special stylus provided in contact with the desired character on the keyboard, thereby transmitting a single, standard code (i.e., teletype, ASCII) representing the character to the data processor. In addition, a series of function tabs is provided. When one of these is touched by the stylus, a unique code is transmitted to the computer. This code may be used for anything the system designer desires (effect transactions, answer inquiries, update files).

MIMO output is an electronic strip printer that prints in a 5 x 7 matrix. The information required to print a character is transmitted from the computer one column at a time. At the end of each transmission character, the motor control causes the stepping motor to advance the paper one matrix column. A "Paper Advance" tab may also be touched with the stylus to cause the paper to advance continually under operator control.

Message length, on both input and output, is unlimited.

SOFTWARE REQUIREMENTS

1. *Message Assembly:* As each character is received by the computer or buffer, it is placed in an appropriate input message assembly buffer area. A function tab code may be treated as an end-of-message indication. The entire message is then processed by the computer, the function tab code identifying the type of processing required.
2. *Verification:* As each input character is received, it is also placed in an output buffer for transmission back to the MIMO terminal for verification.

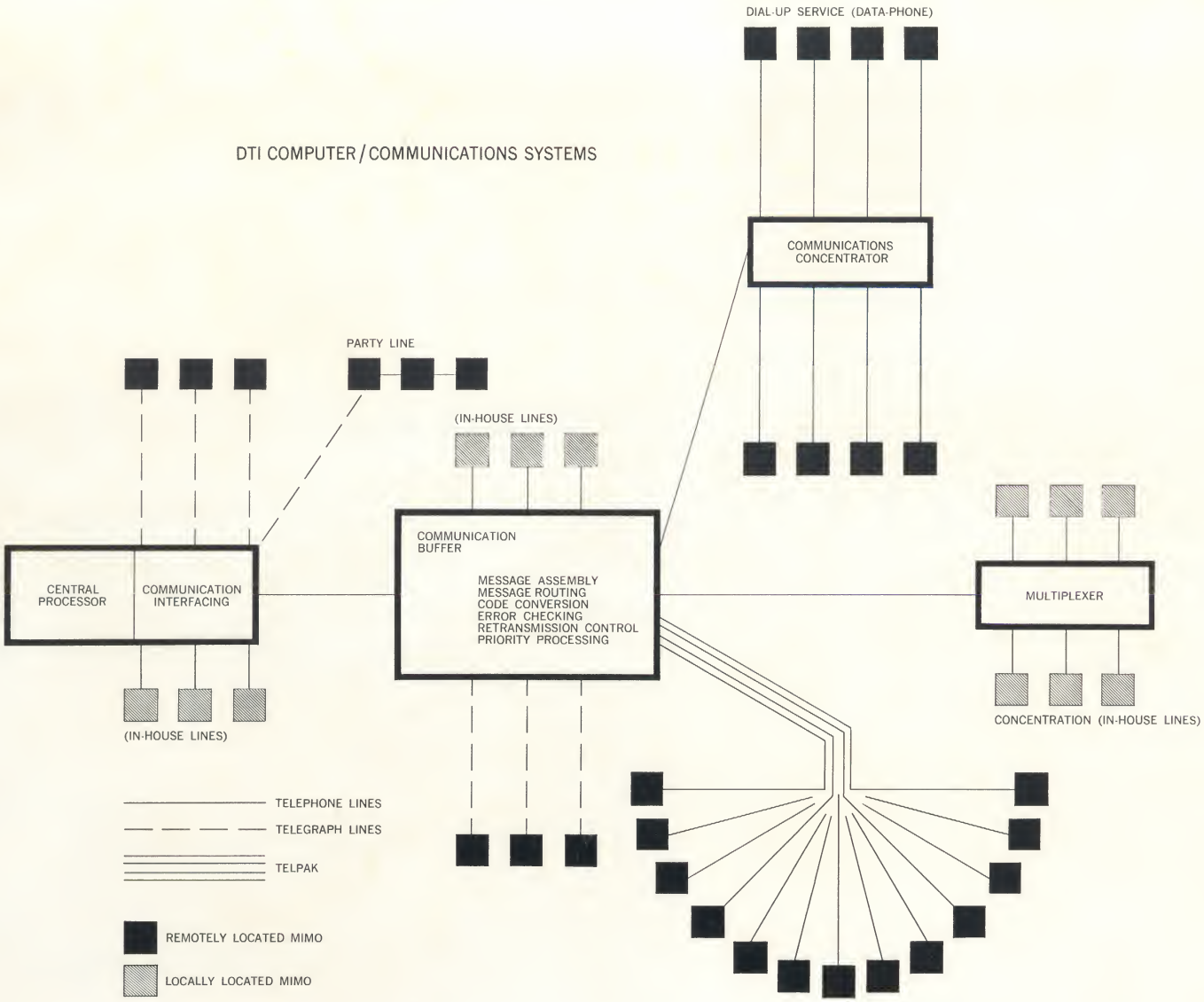
Model 400 Keyboard MIMO

3. *Message Disassembly:* Messages generated by the computer are transmitted character-by-character to the designated MIMO.
4. *Output Encoding:* The encoding of one computer character into from three to seven transmission characters must be provided.
5. *Output Timing:* Output transmission rate not to exceed the printer capability.

When a DTI 100 Universal Buffer is used, all of the above functions are performed by the Buffer for those MIMOs attached to it. Transmission to the computer is by complete messages in computer-compatible code. For unbuffered MIMO systems, these functions must be provided by the program in the computer to which the MIMOs are attached.

SYSTEMS UTILIZATION

• Inquiry (stock quotation, airline reservations, etc.) • Transaction processing (reservations, orders, etc.) • File updating (payroll, personnel records, inventory, etc.) • Data collection • Broadcasting (message distribution) • Information retrieval • Programmed instruction



OPTIONAL FEATURE

PRINT ENCODER

The Print Encoder provides an effective printing speed of 10 characters per second over teletype lines (approximately five times that normally realized without the encoder). Standard character codes are sent to the MIMO and printed on a one-to-one ratio, thus eliminating the output encoding function of the computer or buffer.

SPECIFICATIONS

Standard printing capability for MIMO is 10 characters per second. The actual printing speed achieved will be a function of the computer I/O channel transmission speed and/or the type of communications lines used.

PHYSICAL CHARACTERISTICS

Overall Dimensions — MIMO: height 7″, width 11″, and depth 10″. Writing Platen: 6″ x 9″. Print Encoder: height 7″, width 11″, and depth 10″

Solid State Reliability — Simple paper advance is the only moving part. Routine maintenance requires only paper replenishment.

OPERATING REQUIREMENTS

Power — 115 VAC, 60 cycles, 20 watts

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Printed in U.S.A.